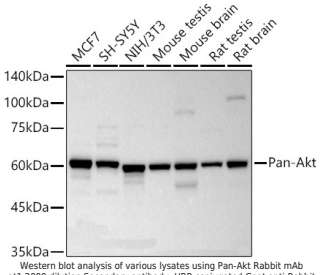
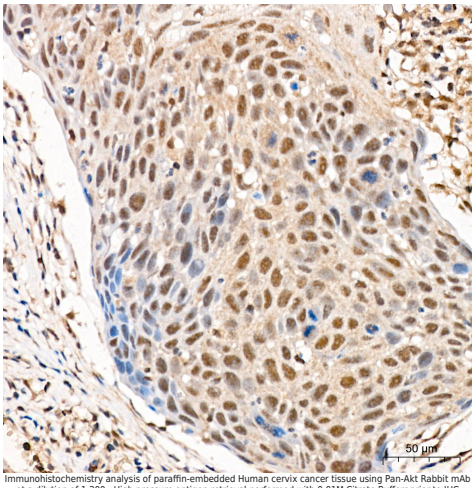
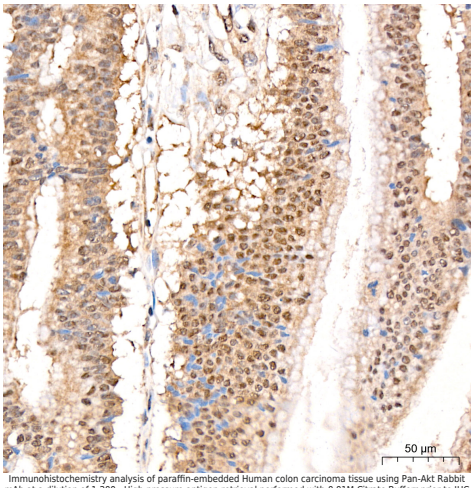
Product name:	Pan-Akt Rabbit mAb
Cat number:	AB18675
Conjugate:	Unconjugated
Size:	100 ug
Clone:	ARC5005-05
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-123 of human Pan-Akt (NP_005154.2).
Reactivity:	Human,Mouse,Rat
Applications:	WB,1:2000 - 1:12000 IHC-P,1:200 - 1:800 IF/ICC,1:100 - 1:400 IP,0.5μg-4μg antibody for 200μg-400μg extracts of whole cells ELISA,Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
Molecular Weight:	60kDa
Purification:	Affinity purification
Form:	liquid
Buffer:	PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.
Storage:	Store at -20℃. Avoid freeze / thaw cycles.
Background:	Human AKT serine-threonine protein kinase family includes three members AKT1,AKT2, AKT3, which are also often referred to as protein kinase B alpha, beta, and gamma. These highly similar AKT proteins all have an N-terminal pleckstrin homology domain, a serine/threonine-specific kinase domain and a C-terminal regulatory domain. These proteins are phosphorylated by phosphoinositide 3-kinase (PI3K). AKT/PI3K forms a key component of many signalling pathways that involve the binding of membrane-bound ligands such as receptor tyrosine kinases, G-protein coupled receptors, and integrin-linked kinase. These AKT proteins therefore regulate a wide variety of cellular functions including cell proliferation, survival, metabolism, and angiogenesis in both normal and malignant cells. AKT proteins are recruited to the cell membrane by phosphatidylinositol 3,4,5-trisphosphate (PIP3) after phosphorylation of phosphatidylinositol 4,5-bisphosphate (PIP2) by PI3K. Subsequent phosphorylation of both threonine residue 308 and serine residue 473 is required for full activation of the AKT1 protein encoded by this gene.



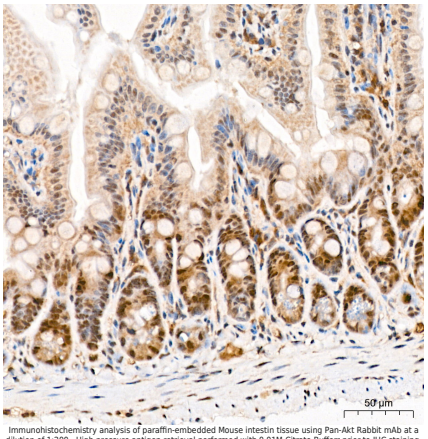
Western blot analysis of various lysates using Pan-Akt Rabbit mAb at1:2000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG at1:10000 dilution.Lysates/proteins: 25µg per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit .Exposure time: 10s.



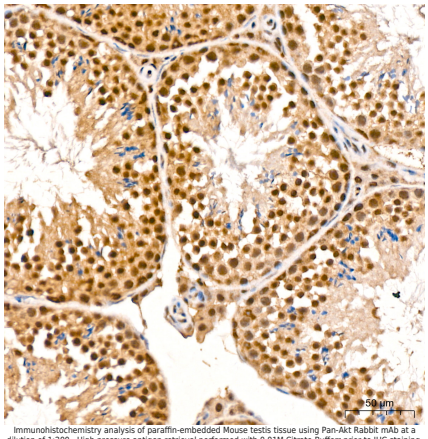
Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Pan-Akt Rabbit mAb at a dilution of 1:200 . High pressure antigen retrieval performed with 0.01M Citrate Bufferr prior to IHC staining.



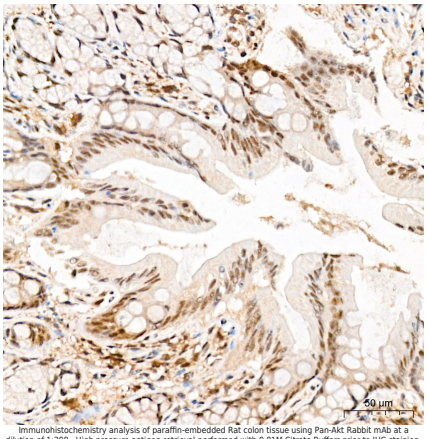
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Pan-Akt Rabbit mAb at a dilution of 1:200 . High pressure antigen retrieval performed with 0.01M Citrate Bufferr prior to IHC staining.



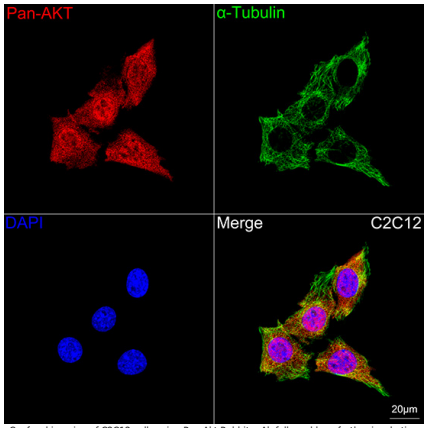
Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using Pan-Akt Rabbit mAb at a dilution of 1:200 . High pressure antigen retrieval performed with 0.01M Citrate Bufferr prior to IHC staining.



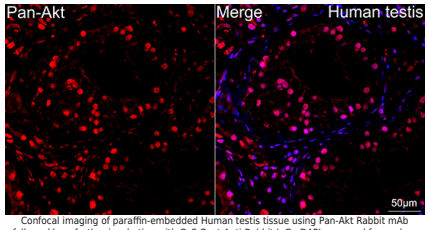
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Pan-Akt Rabbit mAb at a dilution of 1:200 . High pressure antigen retrieval performed with 0.01M Citrate Bufferr prior to IHC staining.



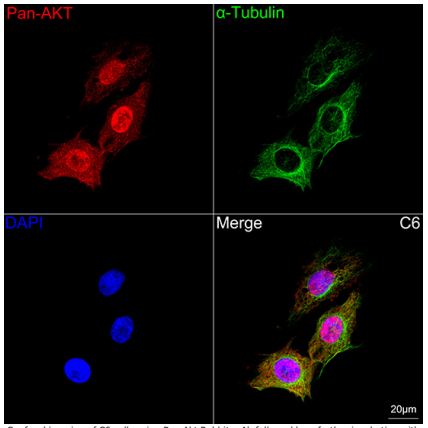
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Pan-Akt Rabbit mAb at a dilution of 1:200 . High pressure antigen retrieval performed with 0.01M Citrate Bufferr prior to IHC staining.



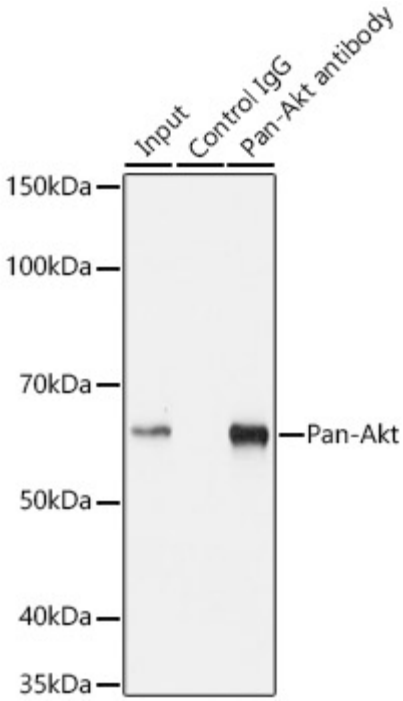
Confocal imaging of C2C12 cells using Pan-Akt Rabbit mAb followed by a further incubation with Cy3 Goat Anti-Rabbit IgG . The cells were counterstained with α-Tubulin Mouse mAb followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG Ab . DAPI was used for nuclear staining . Objective: 100x.



Confocal imaging of paraffin-embedded Human testis tissue using Pan-Akt Rabbit mAb followed by a further incubation with Cy3 Goat Anti-Rabbit IgG . DAPI was used for nuclear staining . High pressure antigen retrieval performed with 0.01M Citrate Buffer prior to IF staining. Objective: 40x.



Confocal imaging of C6 cells using Pan-Akt Rabbit mAb followed by a further incubation with Cy3 Goat Anti-Rabbit IgG . The cells were counterstained with α-Tubulin Mouse mAb followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG Ab . DAPI was used for nuclear staining . Objective: 100x.



Immunoprecipitation analysis of 200 µg extracts from MCF7 cells using 3 µg Pan-Akt Rabbit mAb . Western blot was performed from the immunoprecipitate using Pan-Akt Rabbit mAb at a dilution of 1:1000.